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GOVERNMENT ALL-UNION STANDARDS FOR INSTRUMENTS FOR THERMOTECHNICAL CONTROL ELECTRICAL PYROMETERS

- 1. This standard, GOST 3049-45, replacing OST 40155, applies to the instruments used in electrical pyrometer sets for measuring, recording, and controlling temperature with a scale graduated in units of the centigrade scale:
- a. Millivoltmeters of the magnetoelectric type -- indicating, including - recording, and contact.
- b. DC potentiometers -- automatic, including those which regulate according to a given schedule and adjusting.
 - c. Balanced and unbalanced DC bridges -- indicating and automatic
- d. Logometers measurers of current ratio of the magnetoelectric, electromagnetic, and ferrodynamic types.
 - e. Measuring instruments of optical and radiation pyrometers.
 - 2. The standard does not apply to electrical pyrometers:
- a. Graduated with special-purpose receivers (thermocouples, thermo-batteries and electrical resistance thermometers needle, ribbon, etc.) or designed for use with special receiver circuits (differential or summation circuits, etc.), and also for instruments with combined scales.
 - b. Special purpose

The manufacture and delivery of such electrical pyrometers must be carried out in accordance with technical specifications ap roved by the Committee on Measurements and Measuring Instruments of the Soviet of People's Commissars USSR, or by the purchaser, if the instruments are not listed by the committee.

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	3.	The	standard	establishes limits for degree scales, values of
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3. The standard establishes limits for degree scales, values of external resistors and line resistors for the instruments enumerated in Paragraph 1, and serves as a basis for the design of installations using electrical pyrometers, and also for the design and manufacture of electrical pyrometers by the instrument-building industry of the USSR.

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